# OSHA SELECT CARCINOGENS

IARC - International Agency for Research on Cancer
- 1 = Carcinogenic to humans
- 2A = Probably carcinogenic to humans
- 2B = Possibly carcinogenic to humans

NTP - National Toxicology Program
- K = Known to be Human Carcinogens
- R = Reasonably Anticipated to be Human Carcinogens

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole) | 26148-68-5 | | 2B | |
| Acetaldehyde | 75-07-0 | R | 2B | |
| Acetaldehyde associated with consumption of alcoholic beverages | 75-07-0 | | 1 | |
| Acetamide | 60-35-5 | | 2B | |
| Acetylaminofluorene, 2- | 53-96-3 | R | | Y |
| Acid mists, strong inorganic | | | 1 | |
| Acrylamide | 79-06-1 | R | 2A | |
| Acrylonitrile | 107-13-1 | R | 2B | Y |
| Adriamycin | 23214-92-8 | R | 2A | |
| AF-2 [2-(2-Furyl)-3-(5-nitro-2-furyl)acrylamide] | 3688-53-7 | | 2B | |
| Aflatoxin M1 | 6795-23-9 | | 2B | |
| Aflatoxins | 1402-68-2 | K | 1 | |
| Alcoholic Beverage Consumption | | K | 1 | |
| Aloe vera, whole leaf extract | | | 2B | |
| Aluminium production | | | 1 | |
| Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine, 2- (PhIP) (see Heterocyclic Amines [Selected]) | 105650-23-5 | R | 2B | |
| Amino-2,4-dibromoanthraquinone, 1- | 81-49-2 | R | 2B | |
| Amino-2-methylanthraquinone, 1- | 82-28-0 | R | 3 | |
| Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole, 2- | 712-68-5 | | 2B | |
| Aminoanthraquinone, 2- | 117-79-3 | R | 3 | |
| Aminoazobenzene, para- | 60-09-3 | | 2B | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Aminoazotoluene, ortho- | 97-56-3 | R | 2B | |
| Aminobiphenyl, 4- | 92-67-1 | K | 1 | Y |
| Amitrole | 61-82-5 | R | 3 | |
| Amsacrine | 51264-14-3 | | 2B | |
| Analgesic Mixtures Containing Phenacetin (see Phenacetin and Analgesic Mixtures containing Phenacetin) | | K | | |
| Androgenic (anabolic) steroids | | | 2A | |
| Anisidine Hydrochloride, o- (see o-Anisidine and Its Hydrochloride) | 134-29-2 | R | | |
| Anisidine, ortho- | 90-04-0 | R | 2B | |
| Anthraquinone | 84-65-1 | | 2B | |
| Antimony trioxide | 1309-64-4 | | 2B | |
| Apholate | 52-46-0 | | 2 | |
| Aramite® | 140-57-8 | | 2B | |
| Areca nut | | | 1 | |
| Aristolochic Acids | | K | 1 | |
| Arsenic (see Arsenic and Inorganic Arsenic Compounds) | 7440-38-2 | K | 1 | Y |
| Art glass, glass containers and pressed ware (manufacture of) | | | 2A | |
| Asbestos (all forms) | 1332-21-4 | K | 1 | Y |
| Auramine | 492-80-8 | | 2B | |
| Auramine production | | | 1 | |
| Azacitidine | 320-67-2 | R | 2A | |
| Azaserine | 115-02-6 | | 2B | |
| Azathioprine | 446-86-6 | K | 1 | |
| Benz[a]anthracene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 56-55-3 | R | 2B | |
| Benz[j]aceanthrylene | 202-33-5 | | 2B | |
| Benzene | 71-43-2 | K | 1 | Y |
| Benzidine (see Benzidine and Dyes Metabolized to Benzidine) | 92-87-5 | K | 1 | Y |
| Benzo[a]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 50-32-8 | R | 1 | |
| Benzo[b]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 205-99-2 | R | 2B | |

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|---|---|---|---|---|
| Benzo[c]phenanthrene | 195-19-7 | | 2B | |
| Benzo[j]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 205-82-3 | R | 2B | |
| Benzo[k]fluoranthene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 207-08-9 | R | 2B | |
| Benzofuran | 271-89-6 | | 2B | |
| Benzophenone | 119-61-9 | | 2B | |
| Benzotrichloride | 98-07-7 | R | | |
| Benzoyl chloride | 98-88-4 | | 2A | |
| Benzyl chloride | 100-44-7 | | 2A | |
| Benzyl violet 4B | 1694-09-3 | | 2B | |
| Beryllium (see Beryllium and Beryllium Compounds) | 7440-41-7 | K | 1 | |
| Betel quid with tobacco | | | 1 | |
| Betel quid without tobacco | | | 1 | |
| Biomass fuel (primarily wood), indoor emission from household combustion of | | | 2A | |
| Bis(2-chloroethyl)-2-naphthylamine, N,N- (Chlornaphazine) | 494-03-1 | | 1 | |
| Bis(2-ethylhexyl) phthalate; Di(2-ethylhexyl) Phthalate phthalate) | 117-81-7 | R | 2B | |
| Bis(chloroethyl) Nitrosourea; Nitrosourea Chemotherapeutic Agents; BCNU | 154-93-8 | R | 2A | |
| Bis(chloromethyl) Ether; Bis(chloromethyl) Ether; Technical-Grade Chloromethyl Methyl Ether) | 542-88-1 | K | 1 | Y |
| Bitumens, extracts of steam-refined and air-refined; steam-refined, cracking-residue and air-refined bitumens (see Bitumens, occupational exposures) | 8052-42-4 | | 2B | |
| Bitumens, occupational exposure to oxidized bitumens and their emissions during roofing | 64742-93-4 | | 2A | |
| BK polyomavirus (BKV) | | | 2B | |
| Bleomycins | 11056-06-7 | | 2B | |
| Bracken fern | | | 2B | |
| Bromochloroacetic acid | 5589-96-8 | | 2B | |
| Bromodichloromethane | 75-27-4 | R | 2B | |
| Bromomethyl)-1,3-propanediol, 2,2-Bis-(; Technical Grade | 3296-90-0 | R | 2B | |
| Bromopropane, 1- | 106-94-5 | R | 2B | |
| Butadiene, 1,3- | 106-99-0 | K | 1 | Y |
| Butanediol Dimethanesulfonate, 1,4-; Busulfan | 55-98-1 | K | 1 | |

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|---|---|---|---|---|
| Butoxypropan-2-ol, 1-tert- | 57018-52-7 | | 2B | |
| Butylated Hydroxyanisole (BHA) | 25013-16-5 | R | 2B | |
| Butyrolactone, beta- | 3068-88-0 | | 2B | |
| Cadmium | 7440-43-9 | K | 1 | Y |
| Caffeic acid | 331-39-5 | | 2B | |
| Captafol | 2425-06-1 | R | 2A | |
| Carbazole | 86-74-8 | | 2B | |
| Carbon black | 1333-86-4 | | 2B | |
| Carbon electrode manufacture | | | 2A | |
| Carbon nanotubes, multiwalled MWCNT-7 | 308068-56-6 | | 2B | |
| Carbon Tetrachloride | 56-23-5 | R | 2B | |
| Carpentry and joinery | | | 2B | |
| Carrageenan, degraded (Poligeenan) | 53973-98-1 | | 2B | |
| Catechol | 120-80-9 | | 2B | |
| Ceramic Fibers (Respirable Size) | | R | | |
| Certain Glass Wool Fibers (Inhalable) | | R | | |
| Chloral | 75-87-6 | | 2A | |
| Chloral hydrate | 302-17-0 | | 2A | |
| Chlorambucil | 305-03-3 | K | 1 | |
| Chloramphenicol | 56-75-7 | R | 2A | |
| Chlordane | 57-74-9 | | 2B | |
| Chlorendic Acid | 115-28-6 | R | 2B | |
| Chlorinated Paraffins (C12, 60% Chlorine) | 108171-26-2 | R | 2B | |
| Chlorinated toluenes, alpha- (benzal chloride, benzotrichloride, benzyl chloride) | 98-87-3 | | 2A | |
| Chloro-2-methylpropene, 1-; Dimethylvinyl Chloride | 513-37-1 | R | 2B | |
| Chloro-2-methylpropene, 3- | 563-47-3 | R | 2B | |
| Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone, 3- | 77439-76-0 | | 2B | |
| Chloroaniline, para- | 106-47-8 | | 2B | |
| Chloroethyl)-3-cyclohexyl-1-Nitrosourea, 1-(2-; (see Nitrosourea Chemotherapeutic Agents) | 13010-47-4 | R | 2A | |

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|---|---|---|---|---|
| Chloroform | 67-66-3 | R | 2B | |
| Chloromethyl Methyl Ether (see Bis(chloromethyl) Ether and Technical-Grade Chloromethyl Methyl Ether) | 107-30-2 | K | 1 | Y |
| Chloro-ortho-phenylenediamine, 4- | 95-83-0 | R | 2B | |
| Chloro-ortho-toluidine, 4- | 95-69-2 | R | 2A | |
| Chloro-o-toluidine Hydrochloride, p- (see p-Chloro-o-toluidine and Its Hydrochloride) | 3165-93-3 | R | | |
| Chlorophenoxy herbicides | | | 2B | |
| Chloroprene | 126-99-8 | R | 2B | |
| Chlorothalonil | 1897-45-6 | | 2B | |
| Chlorozotocin (see Nitrosourea Chemotherapeutic Agents) | 54749-90-5 | R | 2A | |
| Chromium (VI) (see Chromium Hexavalent Compounds) | 18540-29-9 | K | 1 | Y |
| Chrysene | 218-01-9 | | 2B | |
| CI Acid Red 114 | 6459-94-5 | | 2B | |
| CI Basic Red 9; Basic Red 9 Monohydrochloride | 569-61-9 | R | 2B | |
| CI Direct Blue 15 | 2429-74-5 | | 2B | |
| Cisplatin | 15663-27-1 | R | 2A | |
| Citrus Red No. 2 | 6358-53-8 | | 2B | |
| Clonorchis sinensis (infection with) | | | 1 | |
| Coal gasification | | | 1 | |
| Coal Tars and Coal Tar Pitches | 65996-93-2 | K | 1 | Y |
| Cobalt and cobalt compounds | 7440-48-4 | R | 2B | |
| Cobalt metal with tungsten carbide | 12070-12-1 | R | 2A | |
| Cobalt metal without tungsten carbide | 7440-48-4 | | 2B | |
| Cobalt sulfate and other soluble cobalt(II) salts | 10026-24-1 | | 2B | |
| Coconut oil diethanolamine condensate | 68603-42-9 | | 2B | |
| Coffee | | | 3 | |
| Coke Oven Emissions | | K | | Y |
| Coke production | | | 1 | |
| Creosotes | 8001-58-9 | | 2A | |

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|---|---|---|---|---|
| Cresidine, para- | 120-71-8 | R | 2B | |
| Cumene | 98-82-8 | R | 2B | |
| Cupferron | 135-20-6 | R | | |
| Cycasin | 14901-08-7 | | 2B | |
| Cyclopenta[cd]pyrene | 27208-37-3 | | 2A | |
| Cyclophosphamide | 50-18-0 | K | 1 | |
| Cyclosporin A; Ciclosporin | 59865-13-3 | K | 1 | |
| Cyclosporine | 79217-60-0 | | 1 | |
| Dacarbazine | 4342-03-4 | R | 2B | |
| Dantron (Chrysazin; 1,8-Dihydroxyanthraquinone) | 117-10-2 | R | 2B | |
| Daunomycin | 20830-81-3 | | 2B | |
| DDT (4,4'-Dichlorodiphenyltrichloroethane) | 50-29-3 | R | 2A | |
| Decabromobiphenyl (under Polybrominated Biphenyls) | 13654-09-6 | R | | |
| Diacetylbenzidine, N,N'- | 613-35-4 | | 2B | |
| Diaminoanisole Sulfate, 2,4- | 39156-41-7 | R | | |
| Diaminoanisole, 2,4- | 615-05-4 | | 2B | |
| Diaminodiphenyl ether, 4,4'-; Oxydianiline, 4,4'- | 101-80-4 | R | 2B | |
| Diaminotoluene, 2,4- | 95-80-7 | R | 2B | |
| Diazinon | 333-41-5 | | 2A | |
| Diazoaminobenzene | 136-35-6 | R | | |
| Dibenz[a,h]acridine (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 226-36-8 | R | 2B | |
| Dibenz[a,h]anthracene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 53-70-3 | R | 2A | |
| Dibenz[a,j]acridine (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 224-42-0 | R | 2A | |
| Dibenz[c,h]acridine | 224-53-3 | | 2B | |
| Dibenzo[a,e]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 192-65-4 | R | 3 | |
| Dibenzo[a,h]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 189-64-0 | R | 2B | |
| Dibenzo[a,i]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 189-55-9 | R | 2B | |
| Dibenzo[a,l]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 191-30-0 | R | 2A | |
| Dibenzo[c,g]carbazole, 7H- (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 194-59-2 | R | 2B | |

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|---|---|---|---|---|
| Dibromo-3-chloropropane, 1,2- | 96-12-8 | R | 2B | Y |
| Dibromoacetic acid | 631-64-1 | | 2B | |
| Dibromoacetonitrile | 3252-43-5 | | 2B | |
| Dibromopropan-1-ol, 2,3- | 96-13-9 | R | 2B | |
| Dichloro-2-propanol, 1,3- | 96-23-1 | | 2B | |
| Dichloro-4,4'-diaminodiphenyl ether, 3,3'- | 28434-86-8 | | 2B | |
| Dichloroacetic acid | 79-43-6 | | 2B | |
| Dichlorobenzene, para- | 106-46-7 | R | 2B | |
| Dichlorobenzidine Dihydrochloride, 3,3'- (see 3,3'-Dichlorobenzidine and Its Dihydrochloride) | 612-83-9 | R | | |
| Dichlorobenzidine, 3,3'- (see 3,3'-Dichlorobenzidine and Its Dihydrochloride) | 91-94-1 | R | 2B | Y |
| Dichloroethane, 1,2- | 107-06-2 | R | 2B | |
| Dichloromethane (Methylene chloride) | 75-09-2 | R | 2A | Y |
| Dichlorophenoxyacetic acid, 2,4-; 2,4-D (see also Chlorophenoxy herbicide) | 94-75-7 | | 2B | |
| Dichloropropane, 1,2- | 78-87-5 | | 1 | |
| Dichloropropene, 1,3- (see 1,3-Dichloropropene [Technical Grade]) | 542-75-6 | R | 2B | |
| Dichlorvos | 62-73-7 | | 2B | |
| Dieldrin, and aldrin metabolized to dieldrin | 60-57-1 | | 2A | |
| Diepoxybutane | 1464-53-5 | R | | |
| Diesel Exhaust Particulates | | R | 1 | |
| Diesel fuel, marine | | | 2B | |
| Diethanolamine | 111-42-2 | | 2B | |
| Diethyl Sulfate | 64-67-5 | R | 2A | |
| Diethylhydrazine, 1,2- | 1615-80-1 | | 2B | |
| Diethylstilbestrol (DES) | 56-53-1 | K | 1 | |
| Diglycidyl Resorcinol Ether | 101-90-6 | R | 2B | |
| Digoxin | 20830-75-5 | | 2B | |
| Dihydrosafrole | 94-58-6 | | 2B | |
| Diisopropyl sulfate | 2973-10-6 | | 2B | |

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|---|---|---|---|---|
| Dimethoxybenzidine, 3,3'- (see 3,3'-Dimethoxybenzidine and Dyes Metabolized to 3,3'-Dimethoxybenzidine) | 119-90-4 | R | 2B | |
| Dimethyl Sulfate | 77-78-1 | R | 2A | |
| Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole, trans-2-[( | 25962-77-0 | | 2B | |
| Dimethylaminoazobenzene, 4- | 60-11-7 | R | 2B | Y |
| Dimethylaniline, 2,6- (2,6-Xylidine) | 87-62-7 | | 2B | |
| Dimethylarsinic acid | 75-60-5 | | 2B | |
| Dimethylbenzidine, 3,3'- (see 3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine) | 119-93-7 | R | 2B | |
| Dimethylcarbamoyl Chloride | 79-44-7 | R | 2A | |
| Dimethylformamide, N,N- | 68-12-2 | | 2A | |
| Dimethylhydrazine, 1,1- | 57-14-7 | R | 2B | |
| Dimethylhydrazine, 1,2- | 540-73-8 | | 2A | |
| Dimethyl-p-toluidine, N,N- | 99-97-8 | | 2B | |
| Dinitrofluoranthene, 3,7- | 105735-71-5 | | 2B | |
| Dinitrofluoranthene, 3,9- | 22506-53-2 | | 2B | |
| Dinitropyrene, 1,3- | 75321-20-9 | | 2B | |
| Dinitropyrene, 1,6- (see Nitroarenes [Selected]) | 42397-64-8 | R | 2B | |
| Dinitropyrene, 1,8- (see Nitroarenes [Selected]) | 42397-65-9 | R | 2B | |
| Dinitrotoluene, 2,4- | 121-14-2 | | 2B | |
| Dinitrotoluene, 2,6- | 606-20-2 | | 2B | |
| Dioxane, 1,4- | 123-91-1 | R | 2B | |
| Disperse Blue 1 | 2475-45-8 | R | 2B | |
| Doxorubicin Hydrochloride (see Adriamycin) | 25136-40-9 | R | | |
| Dry cleaning (occupational exposures in) | | | 2B | |
| Dyes Metabolized to 3,3'-Dimethoxybenzidine (see 3,3'-Dimethoxybenzidine and Dyes Metabolized to 3,3'-Dimethoxybenzidine) | | R | | |
| Dyes Metabolized to 3,3'-Dimethylbenzidine (see 3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine ) | | R | | |
| Dyes Metabolized to Benzidine (see Benzidine and Dyes Metabolized to Benzidine) | | K | | |
| Engine exhaust, diesel | | | 1 | |

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|---|---|---|---|---|
| Engine exhaust, gasoline | | | 2B | |
| Epichlorohydrin | 106-89-8 | R | 2A | |
| Epoxybutane, 1,2- | 106-88-7 | | 2B | |
| Epstein-Barr Virus | | K | 1 | |
| Erionite | 66733-21-9 | K | 1 | |
| Estrogen-only menopausal therapy | | | 1 | |
| Estrogen-progestogen menopausal therapy (combined) | | | 1 | |
| Estrogen-progestogen oral contraceptives (combined) | | | 1 | |
| Estrogens, Steroidal | | K | | |
| Ethanol in alcoholic beverages | 64-17-5 | | 1 | |
| Ethyl acrylate | 140-88-5 | | 2B | |
| Ethyl carbamate (Urethane) | 51-79-6 | R | 2A | |
| Ethyl methanesulfonate | 62-50-0 | R | 2B | |
| Ethylbenzene | 100-41-4 | | 2B | |
| Ethylene dibromide; Dibromoethane, 1,2- | 106-93-4 | R | 2A | |
| Ethylene Oxide | 75-21-8 | K | 1 | Y |
| Ethylene Thiourea | 96-45-7 | R | | |
| Ethyleneimine (see Aziridine) | 151-56-4 | | 2B | Y |
| Etoposide | 33419-42-0 | | 1 | |
| Etoposide in combination with cisplatin and bleomycin | 11056-06-7 | | 1 | |
| Etoposide in combination with cisplatin and bleomycin | 15663-27-1 | | 1 | |
| Firefighter (occupational exposure as a) | | | 2B | |
| Fission products, including strontium-90 | | | 1 | |
| Fluoro-edenite fibrous amphibole | | | 1 | |
| Formaldehyde | 50-00-0 | K | 1 | Y |
| Formylhydrazino)-4-(5-nitro-2-furyl)Thiazole, 2-(2- | 3570-75-0 | | 2B | |
| Frying, emissions from high-temperature | | | 2A | |
| Fuel oils, residual (heavy) | | | 2B | |
| Furan | 110-00-9 | R | 2B | |

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|---|---|---|---|---|
| Furfuryl alcohol | 98-00-0 | | 2B | |
| Fusarium moniliforme, toxins derived from (fumonisin B1, fumonisin B2, and fusarin C) | 116355-83-0 | | 2B | |
| Gasoline | | | 2B | |
| Gasoline engine exhaust (see Engine exhaust, gasoline) | | | 2B | |
| Ginkgo biloba extract | 90045-36-6 | | 2B | |
| Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole) | 67730-11-4 | | 2B | |
| Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole) | 67730-10-3 | | 2B | |
| Glycidaldehyde | 765-34-4 | | 2B | |
| Glycidol | 556-52-5 | R | 2A | |
| Glyphosate | 1071-83-6 | | 2A | |
| Goldenseal root powder | | | 2B | |
| Griseofulvin | 126-07-8 | | 2B | |
| Haematite mining (underground) | | | 1 | |
| Hairdresser or barber (occupational exposure as a) | | | 2A | |
| HC Blue No. 1 | 2784-94-3 | | 2B | |
| Helicobacter pylori (infection with) | | | 1 | |
| Hepatitis B Virus | | K | 1 | |
| Hepatitis C Virus | | K | 1 | |
| Heptachlor | 76-44-8 | | 2B | |
| Hexabromobiphenyl (under Polybrominated Biphenyls) | 36355-01-8 | R | | |
| Hexachlorobenzene | 118-74-1 | R | 2B | |
| Hexachlorocyclohexane (Technical Grade) (see Lindane, Hexachlorocyclohexane [Technical Grade], and Other Hexachlorocyclohexane Isomers) | | R | 2B | |
| Hexachloroethane | 67-72-1 | R | 2B | |
| Hexadienal, 2,4- | 142-83-6 | | 2B | |
| Hexamethylphosphoramide | 680-31-9 | R | 2B | |
| Human Immunodeficiency Virus Type 1 | | K | 1 | |
| Human Immunodeficiency Virus Type 2 | | | 2B | |
| Human papillomavirus type 68 | | | 2A | |

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|---|---|---|---|---|
| Human papillomavirus types 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59 | | | 1 | |
| Human papillomavirus types 26, 53, 66, 67, 70, 73, 82 | | | 2B | |
| Human papillomavirus types 30, 34, 69, 85, 97 | | | 2B | |
| Human papillomavirus types 5 and 8 (in patients with epidermodysplasia verruciformis) | | | 2B | |
| Human Papillomaviruses: Some Genital Mucosal Type | | K | | |
| Human T-cell lymphotropic virus type I | | K | 1 | |
| Hydrazine (see Hydrazine and Hydrazine Sulfate) | 302-01-2 | R | 2A | |
| Hydrazine Sulfate (see Hydrazine and Hydrazine Sulfate) | 10034-93-2 | R | | |
| Hydrazobenzene | 122-66-7 | R | | |
| Hydrochlorothiazide | 58-93-5 | | 2B | |
| Hydroxyanthraquinone, 1- | 129-43-1 | | 2B | |
| Implanted foreign bodies of metallic cobalt, metallic nickel, and an alloy powder containing 66–67% nickel, 13–16% chromium, and 7% iron | | | 2B | |
| Indeno[1,2,3-cd]pyrene (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 193-39-5 | R | 2B | |
| Indium phosphide | 22398-80-7 | | 2A | |
| Indium tin oxide | 50926-11-9 | | 2B | |
| Iron and steel founding (occupational exposure during) | | | 1 | |
| Iron Dextran Complex | 9004-66-4 | R | 2B | |
| Isoprene | 78-79-5 | R | 2B | |
| Isopropyl alcohol manufacture using strong acids | | | 1 | |
| JC polyomavirus (JCV) | | | 2B | |
| Kaposi Sarcoma-Associated Herpesvirus | | K | 1 | |
| Kava extract | 9000-38-8 | | 2B | |
| Kepone (Chlordecone) | 143-50-0 | R | 2B | |
| Lasiocarpine | 303-34-4 | | 2B | |
| Lead (see Lead and Lead Compounds) | 7439-92-1 | R | 2B | Y |
| Lead compounds, inorganic | | | 2A | |
| Leather dust | | | 1 | |
| Lindane (see Lindane, Hexachlorocyclohexane [Technical Grade], and Other Hexachlorocyclohexane Isomers) | 58-89-9 | R | 1 | |

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|---|---|---|---|---|
| Magenta | 632-99-5 | | 2B | |
| Magenta production | | | 1 | |
| Magnetic fields, extremely low-frequency | | | 2B | |
| Malaria (caused by infection with Plasmodium falciparum in holoendemic areas) | | | 2A | |
| Malathion | 121-75-5 | | 2A | |
| MeA-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole) | 68006-83-7 | | 2B | |
| Medroxyprogesterone acetate | 71-58-9 | | 2B | |
| MeIQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline) | 77094-11-2 | R | 2B | |
| MeIQ (2-Amino-3-methylimidazo[4,5‑f]quinoline) | 76180-96-6 | R | 2A | |
| MeIQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline) | 77500-04-0 | R | 2B | |
| Melamine | 108-78-1 | | 2B | |
| Melphalan (4-[Bis(2-chloroethyl)amino]-L-phenylalanine) | 148-82-3 | K | 1 | |
| Mercaptobenzothiazole, 2- | 149-30-4 | | 2A | |
| Merkel Cell Polyomavirus (MCV) | | K | 2A | |
| Merphalan [4-[bis(2-chloroethyl)amino]-DL-Phenylalanine or Sarcolysinum] | 531-76-0 | | 2B | |
| Metallic implants prepared as thin smooth films | | | 2B | |
| Metallic Nickel (see Nickel Compounds and Metallic Nickel) | 7440-02-0 | R | 2B | |
| Methoxsalen (8-methoxypsoralen) plus ultraviolet A radiation | 298-81-7 | K | 1 | |
| Methoxypsoralen, 5- | 484-20-8 | | 2A | |
| Methyl isobutyl ketone | 108-10-1 | | 2B | |
| Methyl Methanesulfonate | 66-27-3 | R | 2A | |
| Methyl-1-nitroanthraquinone, 2- (uncertain purity) | 129-15-7 | | 2B | |
| Methylarsonic acid (Monomethylarsonic acid) | 124-58-3 | | 2B | |
| Methylaziridine, 2- (Propyleneimine) | 75-55-8 | R | 2B | |
| Methylazoxymethanol acetate | 592-62-1 | | 2B | |
| Methylchrysene, 5- (see Polycyclic Aromatic Hydrocarbons: 15 Listings) | 3697-24-3 | R | 2B | |
| Methylene bis(2-methylaniline), 4,4'- | 838-88-0 | | 2B | |
| Methylenebis(2-chloraniline), 4,4'- | 101-14-4 | R | 1 | |
| Methylenedianiline Dihydrochloride, 4,4'- (see 4,4'-Methylenedianiline and Its Dihydrochloride) | 13552-44-8 | R | | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Methylenedianiline, 4,4'- (see 4,4'-Methylenedianiline and Its Dihydrochloride) | 101-77-9 | R | 2B | Y |
| Methyleugenol | 93-15-2 | R | 2B | |
| Methylimidazole, 2- | 693-98-1 | | 2B | |
| Methylimidazole, 4- | 822-36-6 | | 2B | |
| Methylmercury compounds | | | 2B | |
| Methyl-N'-nitro-N-nitrosoguanidine, N- (see N-Nitrosamines: 15 listings) | 70-25-7 | R | 2A | |
| Methyl-N-nitrosourethane, N- | 615-53-2 | | 2B | |
| Methylstyrene, Alpha- | 98-83-9 | | 2B | |
| Methylthiouracil | 56-04-2 | | 2b | |
| Metronidazole | 443-48-1 | R | 2B | |
| Michler’s ketone [4,4’-Bis(dimethylamino)benzophenone] | 90-94-8 | R | 2B | |
| Michler's base (Methylenebis(N,N-dimethyl)benzenamine, 4,4'-) | 101-61-1 | R | 2b | |
| Microcystin-LR | 101043-37-2 | | 2B | |
| Mineral Oils: Untreated and Mildly Treated | | K | | |
| Mirex | 2385-85-5 | R | 2B | |
| Mitomycin C | 50-07-7 | | 2B | |
| Mitoxantrone | 65271-80-9 | | 2B | |
| Molybdenum trioxide | 1313-27-5 | | 2B | |
| Monochloro-1,2-propanediol, 3- | 96-24-2 | | 2B | |
| Monocrotaline | 315-22-0 | | 2B | |
| MOPP and other combined chemotherapy including alkylating agents | | | 1 | |
| Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone, 5-( | 3795-88-8 | | 2B | |
| Mustard Gas (Sulfur Mustard) | 505-60-2 | K | 1 | |
| Myrcene, β- | 123-35-3 | | 2B | |
| Nafenopin | 3771-19-5 | | 2B | |
| Naphthalene | 91-20-3 | R | 2B | |
| Naphthylamine, 1- | 134-32-7 | | 3 | Y |
| Naphthylamine, 2- | 91-59-8 | K | 1 | Y |
| Neutrons (see Ionizing Radiation) | | K | 1 | Y |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Nickel Compounds (see Nickel Compounds and Metallic Nickel ) | | K | 1 | |
| Niridazole | 61-57-4 | | 2B | |
| Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation | | | 2A | |
| Nitrilotriacetic Acid | 139-13-9 | R | 2B | |
| Nitro-2-furyl)-2-thiazolyl]acetamide, N-[4-(5- | 531-82-8 | | 2B | |
| Nitroacenaphthene, 5- | 602-87-9 | | 2B | |
| Nitroanisole, 2- | 91-23-6 | R | 2B | |
| Nitrobenzanthrone, 3- | 17117-34-9 | | 2B | |
| Nitrobenzene | 98-95-3 | R | 2B | |
| Nitrobiphenyl, 4- | 92-93-3 | | 3 | Y |
| Nitrochrysene, 6- (see Nitroarenes [Selected]) | 7496-02-8 | R | 2A | |
| Nitrofen | 1836-75-5 | R | 2B | |
| Nitrofluorene, 2- | 607-57-8 | | 2b | |
| Nitrofurfurylidene)amino]-2-Imidazolidinone, 1-[(5- | 555-84-0 | | 2B | |
| Nitrogen mustard | 51-75-2 | | 2A | |
| Nitrogen Mustard Hydrochloride | 55-86-7 | R | | |
| Nitrogen mustard N-oxide | 126-85-2 | | 2B | |
| Nitromethane | 75-52-5 | R | 2B | |
| Nitropropane, 2- | 79-46-9 | R | 2B | |
| Nitropyrene, 1- (see Nitroarenes [Selected]) | 5522-43-0 | R | 2A | |
| Nitropyrene, 4- (see Nitroarenes [Selected]) | 57835-92-4 | R | 2B | |
| Nitrosodiethanolamine, N- (see N-Nitrosamines: 15 listings) | 1116-54-7 | R | 2B | |
| Nitrosodiethylamine, N- (see N-Nitrosamines: 15 listings) | 55-18-5 | R | 2A | |
| Nitrosodimethylamine, N- (see N-Nitrosamines: 15 listings) | 62-75-9 | R | 2A | Y |
| Nitrosodi-n-butylamine, N- (see N-Nitrosamines:15 listings) | 924-16-3 | R | 2B | |
| Nitrosodi-n-propylamine, N- (see N-Nitrosamines: 15 listings) | 621-64-7 | R | 2B | |
| Nitrosomethylamino)-1-(3-pyridyl)-1-butanone.4-(N- (see N-Nitrosamines: 15 listings) | 64091-91-4 | R | 1 | |
| Nitrosomethylamino)propionitrile, 3-(N- | 60153-49-3 | | 2B | |
| Nitrosomethylethylamine, N- | 10595-95-6 | | 2B | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Nitrosomethylvinylamine, N- (see N-Nitrosamines: 15 listings) | 4549-40-0 | R | 2B | |
| Nitrosomorpholine, N- (see N-Nitrosamines: 15 listings) | 59-89-2 | R | 2B | |
| Nitroso-N-ethylurea, N-; N-Ethyl-N-nitrosourea (see N-Nitrosamines:15 listings) | 759-73-9 | R | 2A | |
| Nitroso-N-methylurea, N- (see N-Nitrosamines:15 listings) | 684-93-5 | R | 2A | |
| Nitrosonornicotine, N- (see N-Nitrosamines: 15 listings) | 16543-55-8 | R | 1 | |
| Nitrosopiperidine, N- (see N-Nitrosamines: 15 listings) | 100-75-4 | R | 2B | |
| Nitrosopyrrolidine, N- (see N-Nitrosamines: 15 listings) | 930-55-2 | R | 2B | |
| Nitrososarcosine, N- (see N-Nitrosamines: 15 listings) | 13256-22-9 | R | 2B | |
| Nitrotoluene, 2- | 88-72-2 | R | 2A | |
| Non-arsenical insecticides (occupational exposures in spraying and application of) | | | 2A | |
| Norethisterone | 68-22-4 | R | | |
| Ochratoxin A | 303-47-9 | R | 2B | |
| Octabromobiphenyl (under Polybrominated Biphenyls) | 61288-13-9 | R | | |
| Oil Orange SS | 2646-17-5 | | 2B | |
| Opisthorchis viverrini (infection with) | | | 1 | |
| Outdoor air pollution | | | 1 | |
| Oxazepam | 604-75-1 | | 2B | |
| Oxymetholone | 434-07-1 | R | | |
| Paint manufacture (occupational exposure in) | | | 1 | |
| Painter (occupational exposure as a) | | | 1 | |
| Palygorskite (Attapulgite) (long fibres, > 5 micrometres) | 12174-11-7 | | 2B | |
| Panfuran S (containing dihydroxymethylfuratrizine) | 794-93-4 | | 2B | |
| Parathion | 56-38-2 | | 2B | |
| Pentachlorobiphenyl, 3,4,5,3',4'- (PCB-126) | 57465-28-8 | | 1 | |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 57117-31-4 | | 1 | |
| Pentachlorophenol (see Pentachlorophenol and By-products of Its Synthesis) | 87-86-5 | R | 1 | |
| Pentachlorophenol, Sodium Salt (see Pentachlorophenol and By-products of Its Synthesis) | 131-52-2 | R | | |
| Pentosan polysulfate sodium | 37319-17-8 | | 2B | |
| Perfluorooctanoic acid (PFOA) | 335-67-1 | | 2B | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Petroleum refining (occupational exposures in) | | | 2A | |
| Phenacetin (see Phenacetin and Analgesic Mixtures Containing Phenacetin) | 62-44-2 | R | 1 | |
| Phenazopyridine Hydrochloride | 136-40-3 | R | 2B | |
| Phenobarbital | 50-06-6 | | 2B | |
| Phenolphthalein | 77-09-8 | R | 2B | |
| Phenoxybenzamine Hydrochloride | 63-92-3 | R | 2B | |
| Phenyl glycidyl ether | 122-60-1 | | 2B | |
| Phenylphenol, ortho- | 90-43-7 | | 2B | |
| Phenytoin (see Phenytoin and Phenytoin Sodium) | 57-41-0 | R | 2B | |
| Phenytoin Sodium (see Phenytoin and Phenytoin Sodium) | 630-93-3 | R | | |
| Phosphorus-32, as phosphate | 14596-37-3 | | 1 | |
| Pickled vegetables (traditional Asian) | | | 2B | |
| Pioglitazone | 111025-46-8 | | 2A | |
| Plutonium | 7440-07-5 | | 1 | |
| Polybrominated biphenyls (PCBs) | 59536-65-1 | R | 2A | |
| Polychlorinated Biphenyls | 1336-36-3 | R | 1 | |
| Polychlorinated biphenyls, dioxin-like, with a Toxicity Equivalency Factor (TEF) according to WHO (PCBs 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, 189) | | | 1 | |
| Polychlorophenols and their sodium salts (mixed exposures) (see also Pentachlorophenol; 2,4,6-Trichlorophenol) | | | 2B | |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | R | | |
| Polymeric implants prepared as thin smooth films (with the exception of poly(glycolic acid)) | | | 2B | |
| Ponceau 3R | 3564-09-8 | | 2B | |
| Ponceau MX | 3761-53-3 | | 2B | |
| Potassium bromate | 7758-01-2 | | 2B | |
| Primidone | 125-33-7 | | 2B | |
| Printing processes (occupational exposures in) | | | 2B | |
| Procarbazine (see Procarbazine and Its Hydrochloride) | 671-16-9 | R | | |
| Procarbazine Hydrochloride (see Procarbazine and Its Hydrochloride) | 366-70-1 | R | 2A | |
| Processed meat (consumption of) | | | 1 | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Progesterone | 57-83-0 | R | | |
| Progestins | | | 2B | |
| Progestogen-only contraceptives | | | 2B | |
| Propane Sultone, 1,3- | 1120-71-4 | R | 2A | |
| Propiolactone, beta- | 57-57-8 | R | 2B | Y |
| Propylene Oxide | 75-56-9 | R | 2B | |
| Propylthiouracil | 51-52-5 | R | 2B | |
| Pulegone | 89-82-7 | | 2B | |
| Pyridine | 110-86-1 | | 2B | |
| Radiation, X- and Gamma | | K | 1 | Y |
| Radiofrequency electromagnetic fields2 | | | 2B | |
| Radioiodines, including iodine-131 | | | 1 | |
| Radionuclides, alpha-particle-emitting, internally deposited | | | 1 | |
| Radionuclides, beta-particle-emitting, internally deposited | | | 1 | |
| Radium-224 and its decay products | 13233-32-4 | | 1 | |
| Radium-226 and its decay products | 13982-63-3 | | 1 | |
| Radium-228 and its decay products | 15262-20-1 | | 1 | |
| Radon (see Ionizing Radiation) | 10043-92-2 | K | 1 | Y |
| Radon-222 and its decay products | 10043-92-2 | K | 1 | Y |
| Red meat (consumption of) | | | 2A | |
| Refractory ceramic fibres | | | 2B | |
| Reserpine | 50-55-5 | R | 3 | |
| Riddelliine | 23246-96-0 | R | 2B | |
| Rubber manufacturing industry | | | 1 | |
| Safrole | 94-59-7 | R | 2B | |
| Salted fish, Chinese-style | | | 1 | |
| Schistosoma haematobium (infection with) | | | 1 | |
| Schistosoma japonicum (infection with) | | | 2B | |
| Selenium Sulfide | 7446-34-6 | R | | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Semustine [1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea; [Methyl-CCNU] | 13909-09-6 | K | 1 | |
| Shale oils | 68308-34-9 | | 1 | |
| Shiftwork that involves circadian disruption | | | 2A | |
| Silica dust, crystalline, in the form of quartz or cristobalite | 14808-60-7 | K | 1 | |
| Silicon carbide whiskers | 409-21-2 | | 2A | |
| Silicon carbide, fibrous | 308076-74-6 | | 2B | |
| Sodium ortho-phenylphenate | 132-27-4 | | 2B | |
| Solar Radiation (see Ultraviolet-Radiation-Related Exposures) | | K | 1 | |
| Soot (as found in occupational exposure of chimney sweeps) | | K | 1 | |
| Special-purpose fibres such as E-glass and '475' glass fibres | | | 2B | |
| Sterigmatocystin | 10048-13-2 | | 2B | |
| Streptozotocin (see Nitrosourea Chemotherapeutic Agents) | 18883-66-4 | R | 2B | |
| Strong Inorganic Acid Mists Containing Sulfuric Acid | | K | | |
| Styrene | 100-42-5 | R | 2B | |
| Styrene-7,8-oxide | 96-09-3 | R | 2A | |
| Sulfallate | 95-06-7 | R | 2B | |
| Sulfasalazine | 599-79-1 | | 2B | |
| Sulfuric Acid (see Strong Inorganic Acid Mists Containing Sulfuric Acid) | 7664-93-9 | K | | |
| Sunlamps and Sunbeds (see Ultraviolet-Radiation-Related Exposures) | | K | | |
| Talc-based body powder (perineal use of) | 14807-96-6 | | 2B | |
| Tamoxifen | 10540-29-1 | K | 1 | |
| Teniposide | 29767-20-2 | | 2A | |
| Tetrabromobisphenol A | 79-94-7 | | 2A | |
| Tetrachloroazobenzene, 3,3’,4,4’- | 14047-09-7 | | 2A | |
| Tetrachlorodibenzo-p-dioxin, 2,3,7,8- | 1746-01-6 | K | 1 | |
| Tetrachloroethane, 1,1,1,2- | 630-20-6 | | 2B | |
| Tetrachloroethane, 1,1,2,2- | 79-34-5 | | 2B | |
| Tetrachloroethylene | 127-18-4 | R | 2A | |
| Tetrachlorvinphos | 22248-79-9 | | 2B | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Tetrafluoroethylene | 116-14-3 | R | 2A | |
| Tetrahydrofuran | 109-99-9 | | 2B | |
| Tetranitromethane | 509-14-8 | R | 2B | |
| Textile manufacturing industry (work in) | | | 2B | |
| Thioacetamide | 62-55-5 | R | 2B | |
| Thiodianiline, 4,4'- | 139-65-1 | R | 2B | |
| Thiotepa | 52-24-4 | K | 1 | |
| Thiouracil | 141-90-2 | | 2B | |
| Thiourea | 62-56-6 | R | 3 | |
| Thorium Dioxide (see Ionizing Radiation) | 1314-20-1 | K | 1 | |
| Thorium-232 and its decay products | 7440-29-1 | | 1 | |
| Titanium dioxide | 13463-67-7 | | 2B | |
| Tobacco smoke, second-hand | | K | 1 | |
| Tobacco smokeless | | K | 1 | |
| Tobacco smoking | | K | 1 | |
| Toluene Diisocyanate, 2,4- (see Toluene Diisocyanates) | 584-84-9 | R | | |
| Toluene Diisocyanate, 2,6- (see Toluene Diisocyanates) | 91-08-7 | R | | |
| Toluene Diisocyanates | 26471-62-5 | R | 2B | |
| Toluidine, ortho- (see o-Toluidine and Its Hydrochloride) | 95-53-4 | K | 1 | |
| Toxaphene | 8001-35-2 | R | 2B | |
| Treosulfan | 299-75-2 | | 1 | |
| Triamterene | 396-01-0 | | 2B | |
| Trichlormethine (Trimustine hydrochloride) | 817-09-4 | | 2B | |
| Trichloroacetic acid | 76-03-9 | | 2B | |
| Trichloroethylene | 79-01-6 | K | 1 | |
| Trichlorophenol, 2,4,6- | 88-06-2 | R | 2B | |
| Trichloropropane, 1,2,3- | 96-18-4 | R | 2A | |
| Tris(2,3-dibromopropyl) Phosphate | 126-72-7 | R | 2A | |
| Trp-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole) | 62450-06-0 | | 2B | |

| CHEMNAME | CASNUM | NTP | IARC | OSHA |
|---|---|---|---|---|
| Trp-P-2 (3-Amino-1-methyl-5H-pyrido[4,3-b]indole) | 62450-07-1 | | 2B | |
| Trypan blue | 72-57-1 | | 2B | |
| Tungsten carbide with cobalt metal (see Cobalt metal with tungsten carbide) | 12070-12-1, 7440-48-4 | | | |
| Ultraviolet radiation (wavelengths 100-400 nm, encompassing UVA, UVB, and UVC) | | | 1 | |
| Ultraviolet Radiation A (see Ultraviolet-Radiation-Related Exposures) | | R | | |
| Ultraviolet Radiation B (see Ultraviolet-Radiation-Related Exposures) | | R | | |
| Ultraviolet Radiation C (see Ultraviolet-Radiation-Related Exposures) | | R | | |
| Ultraviolet Radiation, Broad Spectrum (see Ultraviolet-Radiation-Related Exposures) | | K | | |
| Ultraviolet-emitting tanning devices | | | 2B | |
| Uracil mustard | 66-75-1 | | 2B | |
| Vanadium pentoxide | 1314-62-1 | | 2B | |
| Very hot beverages at above 65 °C (drinking) | | | 2A | |
| Vinyl acetate | 108-05-4 | | 2B | |
| Vinyl Bromide (see Vinyl Halides [Selected]) | 593-60-2 | R | 2A | |
| Vinyl Chloride (see Vinyl Halides [Selected]) | 75-01-4 | K | 1 | Y |
| Vinyl Fluoride (see Vinyl Halides [Selected]) | 75-02-5 | R | 2A | |
| Vinylcyclohexene diepoxide, 4- | 106-87-6 | R | 2B | |
| Vinylcyclohexene, 4- | 100-40-3 | | 2B | |
| Vinylidene chloride | 75-35-4 | | 2B | |
| Welding fumes | | | 1 | |
| Wood Dust | | K | 1 | |
| Zalcitabine | 7481-89-2 | | 2B | |
| Zidovudine (AZT) | 30516-87-1 | | 2B | |

OSHA Select Carcinogens are defined as any substance that meets one of the following criteria:

1. Regulated by OSHA as a carcinogen
2. Listed under Group 1 “Carcinogenic to Humans” by IARC (International Agency for Research on Cancer)
3. Listed in either Group 2a "Probably Carcinogenic to Humans" or 2b "Possibly Carcinogenic to Humans" by IARC
4. Listed as Group K “Known to be a Human Carcinogen” by NTP (National Toxicology Program)
5. NTP lists Group R “Reasonably Anticipated to be a Human Carcinogen”,
and causes statistically significant tumor incidence in experimental
animals in accordance with one of the following dosage criteria:
    - inhalation exposures of <10 mg/m3, 6-7 hours per day, 5 days per week, for a significant portion of a lifetime; or
    - skin application of <300 mg/kg body weight per week; or
    - oral doses of <50 mg/kg body weight per day

This list of Select Carcinogens takes a conservative approach by listing all substances classified as known, probable, or possible human carcinogens by NTP and IARC; no effort was made to differentiate known from potential carcinogens. Researchers may take a conservative approach as well and treat these compounds as Select Carcinogens. Those who choose not to use this approach are tasked with documenting that the dosing regimen for a particular compound disqualifies it as an OSHA Select Carcinogen in accordance with the above listed criteria.

Last Updated 8/2017